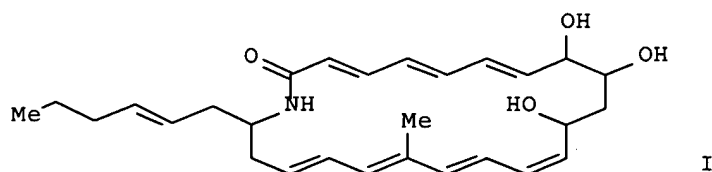


L5 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:539718 CAPLUS Full-text
 DN 141:221406
 TI Aureoverticillactam, a novel 22-atom macrocyclic lactam from the marine actinomycete *Streptomyces aureoverticillatus*
 AU Mitchell, Scott S.; Nicholson, Benjamin; Teisan, Sy; Lam, Kin S.; Potts, Barbara C. M.
 CS Nereus Pharmaceuticals, Inc., San Diego, CA, 92121, USA
 SO Journal of Natural Products (2004), 67(8), 1400-1402
 CODEN: JNPRDF; ISSN: 0163-3864
 PB American Chemical Society
 DT Journal
 LA English
 GI



AB During the course of our screening program designed to discover novel anticancer and anti-infective agents from marine microorganisms, a strain of *S. aureoverticillatus* (NPS001583) isolated from a marine sediment was found to produce a novel macrocyclic lactam with cytotoxicity against various tumor cell lines. Using extensive MS, UV, and NMR spectral analyses, the structure has been established as (I), aureoverticillactam, a 22-atom macrocyclic lactam incorporating both triene and tetraene conjugated olefins.

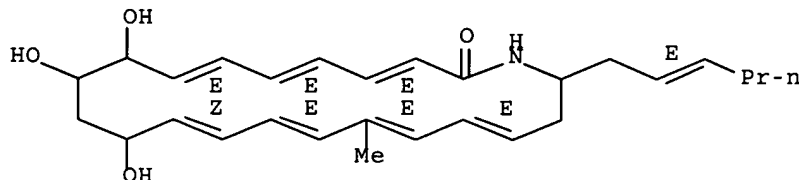
IT 682774-28-3P, Aureoverticillactam

RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
 (aureoverticillactam is a novel 22-atom macrocyclic lactam from the marine actinomycete *Streptomyces aureoverticillatus*)

RN 682774-28-3 CAPLUS

CN Azacyclodocosa-3,5,7,13,15,17,19-heptaen-2-one, 22-(2E)-2-hexenyl-9,10,12-trihydroxy-17-methyl-, (3E,5E,7E,13Z,15E,17E,19E)- (9CI) (CA INDEX NAME)

Double bond geometry as described by E or Z.



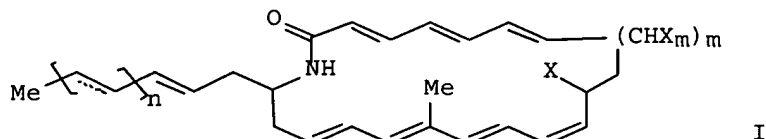
RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STM
 AN 2004:354728 CAPLUS Full-text
 DN 140:357116
 TI Isolation and semisynthesis of macrocyclic lactams as anticancer agents
 IN Mitchell, Scott S.; Nicholson, Benjamin
 PA Nereus Pharmaceuticals, Inc., USA
 SO PCT Int. Appl., 36 pp.
 CODEN: PIXXD2

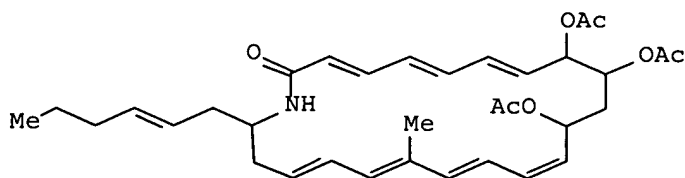
DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004034970	A2	20040429	WO 2003-US30518	20030925
	WO 2004034970	A3	20041118		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2004132997	A1	20040708	US 2003-673036	20030925
PRAI	US 2002-414817P	P	20020927		
OS	MARPAT 140:357116				
GI					



I



II

AB Antitumor compds. represented by formula I ($m = 2-4$; $n = 1-3$; $X = H, OH, OAc, NH_2, \text{halo, etc}$), acid-addition salts and pro-drugs are disclosed. These compds. were based on the structure of a macrocyclic lactam (II) isolated from cell culture of a marine organism (NPS1583). An acetyl derivative of II were prepared Compound II showed anti-tumor activity in an HT-29 assay with $EC_{50} = 0.2625 \mu\text{g/mL}$.

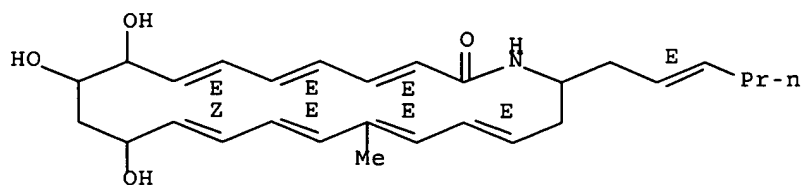
IT 682774-28-3P

RL: BPN (Biosynthetic preparation); PAC (Pharmacological activity); PUR (Purification or recovery); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (isolation and semisynthesis of macrocyclic lactams as anticancer agents)

RN 682774-28-3 CAPLUS

CN Azacyclodocosa-3,5,7,13,15,17,19-heptaen-2-one, 22-(2E)-2-hexenyl-9,10,12-trihydroxy-17-methyl-, (3E,5E,7E,13Z,15E,17E,19E)-(9CI) (CA INDEX NAME)

Double bond geometry as described by E or Z.



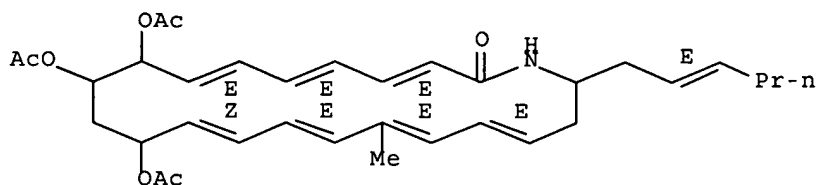
IT 682774-29-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (isolation and semisynthesis of macrocyclic lactams as anticancer agents)

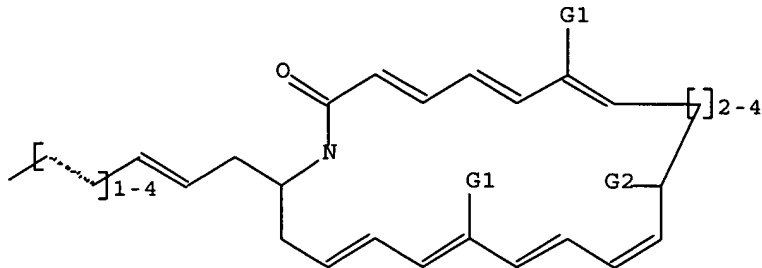
RN 682774-29-4 CAPLUS

CN Azacyclodocosa-3,5,7,13,15,17,19-heptaen-2-one, 9,10,12-tris(acetyloxy)-22-(2E)-2-hexenyl-17-methyl-, (3E,5E,7E,13Z,15E,17E,19E)- (9CI) (CA INDEX NAME)

Double bond geometry as described by E or Z.



=> d l2; d his; log y
 L2 HAS NO ANSWERS
 L1 STR



G1 C,H
 G2 H,O,N,X

Structure attributes must be viewed using STN Express query preparation.
 L2 QUE ABB=ON PLU=ON L1

(FILE 'REGISTRY' ENTERED AT 18:38:28 ON 26 MAY 2005)

DEL HIS Y
 L1 STRUCTURE UPLOADED
 L2 QUE L1
 L3 0 S L2
 L4 2 S L2 FUL

FILE 'CAPLUS' ENTERED AT 18:39:47 ON 26 MAY 2005

L5 2 S L4

FILE 'BEILSTEIN' ENTERED AT 18:40:24 ON 26 MAY 2005

L6 0 S L2
 L7 0 S L2 FUL

FILE 'MARPAT' ENTERED AT 18:40:53 ON 26 MAY 2005

L8 0 S L2
 L9 3 S L2 FUL
 L10 1 S L9/COM
 L11 0 S L10 NOT L5

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	113.53	285.89
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-1.46

STN INTERNATIONAL LOGOFF AT 18:41:35 ON 26 MAY 2005